IN THE CLAIMS

This listing of the claims replaces all prior listings:

1. (Currently Amended) A <u>linear magnetic recording and reproducing system</u> comprising:

a high sensitivity magnetoresistive head; and

a magnetic recording medium, said recording medium comprising: a tape-shaped non-magnetic substrate; and a magnetic layer on said substrate, said magnetic layer comprising having an oblique columnar structure formed through a vacuum thin film forming technique on a surface of said non-magnetic substrate, wherein said magnetic layer includes a first ferromagnetic metal thin film layer on a surface of said substrate; and a second ferromagnetic metal thin film layer on said first ferromagnetic metal thin film layer,

wherein,

said first ferromagnetic metal thin film layer has a columnar grain structure formed
through a vacuum thin film forming technique on a surface of said substrate, and said columnar
grain structure is inclined in a first direction relative to said substrate;

formed on said first second ferromagnetic metal thin film layer and whose direction of growth of its has a oblique columnar grain structure formed through a vacuum thin film forming technique on the surface of said first ferromagnetic metal thin film layer and which is inclined in a direction is opposite that of an inclination of said first ferromagnetic metal thin film layer,

wherein,

Mr· δ , which is a product of residual magnetization Mr of said magnetic layer and film thickness δ of said magnetic layer, satisfies 3 (mA) \leq Mr· δ < 30 (mA),

thickness d_1 of said first ferromagnetic metal thin film and thickness d_2 of said second ferromagnetic metal thin film satisfy 40 (nm) $\leq d_1 + d_2 \leq 100$ (nm) as well as $1/2 \leq d_2/d_1 \leq 1$, and coercivity Hc of sad-said magnetic layer satisfies Hc ≥ 100 (kA/m).

- 2. (Currently amended) The <u>linear recording and reproducing apparatus magnetic</u> recording medium according to claim 1, wherein said Mr· δ satisfies 12 (mA) \leq Mr· δ < 30 (mA), and recorded signals are reproduced with a <u>said</u> magnetoresistive head.
- 3. (Currently amended) The <u>linear recording and reproducing apparatus</u> magnetic recording medium according to claim 1, wherein said Mr· δ satisfies 3 (mA) \leq Mr· δ < 12 (mA), and recorded signals are reproduced with a-said giant magnetoresistive head.
- 4. (Currently amended) The <u>linear recording and reproducing apparatus</u> magnetic recording medium according to claim 1, wherein said magnetic recording medium further comprising comprises a plurality of tracks arranged in parallel in the longitudinal direction of said magnetic recording medium, and wherein recording and reproducing of signals is performed in a said linear method.
- 5. (Currently amended) The <u>linear recording and reproducing apparatus magnetic</u> recording medium according to claim 1, <u>wherein said magnetic recording medium</u> further <u>eomprising comprises</u> a protective layer on said magnetic layer.

6. (Currently amended) The <u>linear recording and reproducing apparatus</u> magnetic recording medium according to claim 5, wherein said protective layer includes a diamond-like carbon film.